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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,037	06/23/2004	Ralf Knappe	Wuesthoff-4 (9A-93 052)	2240
26479	7590 07/14/2006		EXAMINER	
STRAUB & POKOTYLO 620 TINTON AVENUE BLDG. B, 2ND FLOOR			RODRIGUEZ, ARMANDO	
			ART UNIT	PAPER NUMBER
	LS, NJ 07724		2828	
			DATE MAILED: 07/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n N .	Applicant(s)			
	10/500,037	KNAPPE ET AL.			
Office Action Summary	Examiner	Art Unit			
	ARMANDO RODRIGUEZ	2828			
The MAILING DATE f this communication app Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing	( IS SET TO EXPIRE 3 MONTH() ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	S) OR THIRTY (30) DAYS,  I.  lely filed  the mailing date of this communication.  D (35 U.S.C. § 133).			
earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on					
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3) Since this application is in condition for allowar	) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 29-54 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 29,32-34,36-38,41-44,47-50,53 and 5 7) ☐ Claim(s) 30,31,35,39,40,45,46,51 and 52 is/are 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.  4 is/are rejected.  objected to.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/23/2004.	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal P 6) Other:	(PTO-413) ate Patent Application (PTO-152)			

Application/Control Number: 10/500,037

Art Unit: 2828

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 42, 54 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 42 and 54 recites the limitation "imaging optics" in line 4. There is insufficient antecedent basis for this limitation in the claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 29, 32-34, 43, 44, 47, 48 are rejected under 35 U.S.C. 102(b) as being anticipated by Huga Hiroaki (JP 2000-307179).

Regarding claim 29, 34, 43, 44,

Hiroaki illustrates in figure 1 a polarized laser diode (11), a laser crystal (14) and an optical element (17). Hiroaki describes in the abstract the axis of the crystal and the laer as parallel and share in absorption.

Regarding claims 32, 33, 47, 48,

The abstract describes the laser crystal as Nd:YVO<sub>4</sub>.

Application/Control Number: 10/500,037

Art Unit: 2828

Claims 29, 36, 37, 38, 41, 42 are rejected under 35 U.S.C. 102(b) as being anticipated by Maag et al (US 6,137,820).

Regarding claims 29, 37, 41, 42, 43, 49, 53, 54,

Maag et al illustrates in figure 1 a laser diode array (14), a laser crystal (1), an optical element (2), column 3 lines 44-50 discloses linearly polarized light beam and column 3 lines 6-10 implies matching the axis of the beam with laser crystal [applicant's absorption axis].

Regarding claim 36,

Optical element (2) is a polarization dependent beam splitter.

Regarding claims 38, 50,

Figure 1 illustrates mirrors (11) and (12) forming a resonator for the laser crystal (1).

## Allowable Subject Matter

Claims 30, 31, 35, 39, 40, 45, 46, 51 and 52 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ARMANDO RODRIGUEZ whose telephone number is 571-272-1952. The examiner can normally be reached on 9:00 AM - 5:00 PM.

Application/Control Number: 10/500,037

Art Unit: 2828

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MINSUN HARVEY can be reached on 571-272-1835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ARMANDO RODRIGUEZ

Primary Examiner
Art Unit 2828

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